

Department of Chemistry & Physics

CHEM 1041. GENERAL CHEMISTRY LABORATORY. (1-0-3). Identification of common inorganic ions; quantitative inorganic analysis; experiments of chemical equilibria. Prerequisites: credit for 1030-1031 and credit for or registration in 1040.

Experiment

- 10/22 1) Check-in, Introducing Graphing Techniques
- 10/27 2) Heat of neutralization
- 10/29 3) Using Freezing Point Depression to Find Molecular Weight
- 11/3 4) Determining Molar Mass of a Volatile Substance
- 11/5 5) Spectrophotometric Studies of Food Dye Solutions
- 11/10 6) pH, Acids and Bases
- 11/12 7) Molecular Models
- 11/17 8) Solubility Constant of a Salt
- 11/19 9) Electrochemistry
- Thanksgiving
- 12/1 10) Rate Law Determination of Food Dye and Bleach
- 12/3 Make-up Lab
- 12/5 Final Exam, Check-out

Course Goals

This course is intended:

1. To introduce students to the laboratory aspects of chemistry.
2. To require application of mathematical concepts in chemistry.
3. To instill safe chemical practices in our students.
4. To allow our students to see chemistry in action and perform experiments on their own or in groups.
5. To demonstrate the basic techniques that will be applied in more advanced levels of laboratory work.

Course Objectives

The student who successfully completes this course should be able:

1. To manipulate mathematical equations that pertain to chemistry.
2. To use common laboratory glassware and equipment.
3. To act safely in the laboratory.
4. To analyze or synthesize complex matters in a reasonable and orderly manner.
5. To solve problems in a timely manner.

Code of Conduct:

Academic dishonesty is a serious offense, which can result in expulsion from the University. The Student Handbook contains a complete description of all academic infractions. For my part, I will report all infractions to the Vice President of Student Affairs. In addition, I will impose a zero for the test or quiz on which the infraction took place.

Disability Statement

It is the policy of NSU to accommodate students with disabilities, pursuant to federal law, state law, and the University's commitment to equal educational opportunities. Any student with a disability who needs accommodation, for example in seating placement or in arrangements for examinations, should inform the instructor at the beginning of the course. Students with disabilities are encouraged to contact Disability Services, which is located in Kyser Hall, room 237, telephone 357-6950 or (TTD) 357-4393 or disability@nsula.edu.